2015 Louisiana Annual Network Assessment



Louisiana Department of Environmental Quality
Office of Environmental Compliance
Assessment Division

May 8, 2015

The Louisiana Department of Environmental Quality (LDEQ) maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates its sites to meet all requirements of Appendix E. LDEQ's Air Field Services section operates State and Local Ambient Monitoring Stations (SLAMS), Photochemical Assessment Monitoring Stations (PAMS), Special Purpose Monitoring Stations (SPMS), and a National Core Network (NCore) Ambient Air Monitoring Station as a requirement of the Code of Federal Regulations (CFR), Title 40, Part 58. These stations measure ambient air concentrations of those pollutants for which standards have been established in 40 CFR Part 50. Data acquired from the stations are submitted into the EPA's Air Quality System (AQS) where it is compared to the National Ambient Air Quality Standards (NAAQS). Access to this information is available through EPA's website (www.epa.gov). Conformance of the network to 40 CFR 58 Appendix D (Network Design Criteria) and Appendix E (Probe and Path Siting Criteria) is determined using an Annual Review of the air quality surveillance system, as required for each state in 40 CFR 58.10. The location for this ruling is available in Docket ID No. EPA-HO-OAR-2004-0018 in the http://www.regulations.gov index. The review is also used to ensure that the network is continuing to meet the objectives of the air monitoring program. The three basic objectives of the air monitoring program follow:

- Provide air pollution data to the general public in a timely manner. Data can be
 presented to the public in a number of different ways including through air quality
 maps, newspapers, internet sites, and as a part of weather forecasts and public
 advisories.
- 2. Support compliance with ambient air quality standards and emissions strategy development. Data from the monitors for National Ambient Air Quality Standards (NAAQS) pollutants will be used for comparing an area's air pollution levels against the NAAQS. Data of various types can be used in the development of attainment and maintenance plans. Data can also be used to track trends to determine the impact of air pollution abatement control measures on improving air quality. In monitoring locations near major air pollution sources, source-oriented monitoring data can provide insight into how well industrial sources are controlling their pollutant emissions.
- 3. Support for air pollution research studies such as health effects assessments.

This review has several goals:

- Determine if the network requires any modifications to continue to meet its monitoring objective and data needs (through termination of existing stations, relocation of stations, or establishment of new stations); and
- o Investigate ways to improve the network to ensure that it provides adequate, representative, and useful air quality data.

Monitoring Plans for July 2015-June 2016

Under EPA's NCore design guidelines, the state of Louisiana is required to operate one NCore level 2 site, which is the Capitol site. The remaining sites in the state will all be PAMS, SLAMS, Speciation Trends Network (STN), or SPMs. Table A summarizes number and type of monitors located in each Metropolitan Statistical Area (MSA) population. Table B lists specific information about analytes monitored at each site and the MSA covered by this location. Finally, Table C lists information regarding the PAMS network. The PAMS network plan exceeds the minimum monitoring requirements. Currently, the air monitoring stations at Capitol, Pride, Dutchtown, and Bayou Plaquemine are PAMS sites.

The NOx analyzer at I-610 Near Road in New Orleans (AQS #22-071-0021) began operation on March 18, 2014, while the Carbon Monoxide and PM2.5 Federal Reference Method (FRM) monitors started sampling on December 3, 2014. On February 27, 2015, the met tower was erected and the wind speed and wind direction parameters became operational. The installation date of the traffic counter is to be determined.

The site agreement for the new Lafayette MSA ozone monitoring site has been completed and the site is in the planning and preliminary setup stages, such as obtaining permitting and contractors to perform the site setup.

Per US EPA Region 6 approval on August 28, 2014, PM2.5 Federal Equivalent Method (FEM) beta-attenuation monitors 1020 (BAM) have been shut down at Port Allen, Alexandria (2) and Monroe air monitoring sites. The parameter codes have been changed in AQS to 88502 in order to reflect these and other BAMs as not comparable to the NAAQS. The Department will keep these decommissioned monitors for possible future use. The following end dates have been entered into AQS:

- o Port Allen 1 monitor, AQS#22-121-0001, discontinued on September 30, 2014
- o Alexandria 2 monitors, AQS#22-079-0002, discontinued on October 2, 2014
- o Monroe 1 monitor, AQS#22-073-0004, discontinued on October 7, 2014

The following changes were requested in the 2014 annual network plan submittal and subsequently approved by US EPA Region 6 in a letter dated October 22, 2014:

New Orleans, LA MSA

- City Park (AQS #22-071-0012) ozone monitor discontinued on 1/21/15.
- Hahnville (AQS #22-089-0003) ozone monitor discontinued on 1/22/15.
- Kenner (AQS #22-051-1001) manual PM2.5 FRM sampling frequency changed on 1/22/15 from every day to a 1-in-6 day sampling schedule.

Baton Rouge, LA MSA

• LSU (AQS #22-033-0003) nitrogen dioxide monitor discontinued on 1/22/15.

- Carville (AQS #22-047-0012) nitrogen dioxide monitor discontinued on 1/22/15.
- Bayou Plaquemine (AQS # 220470009) PM2.5 FRM discontinued on 1/27/15.

Lafayette, LA MSA

• Lafayette USGS (AQS #22-055-0007) additional PM10 BAM (Parameter Occurrence Code, POC-2) discontinued on 1/23/15.

Lake Charles, LA MSA

- Westlake (AQS #22-019-0008) ozone monitor discontinued 1/22/15
- Lake Charles McNeese University (AQS #22-019-0010) PM2.5 FRM monitor discontinued 1/23/15.

Additional proposed changes to the current network are as follows:

Shreveport - Bossier City LA MSA

EPA's Office of Air Quality Planning and Standards assessment of the chemical speciation network (CSN) found that the PM2.5 supplemental speciation at the Shreveport Airport site (AQS #22-015-0008) was among the low scoring sites in the CSN assessment and could be discontinued. LDEQ requests to discontinue the supplemental speciation at the Shreveport Airport site and will collaborate with EPA on future monitoring in an area that could provide critical data for the state of Louisiana.

LDEQ plans to continue monitoring at the following sites:

- Continue to operate the PM2.5 FRM monitor at Geismar (AQS # 22-047-0009) due to the proximity of industry in the area to provide oversight of ambient air conditions in this industrial area.
- Baker Lead (Pb) site (AQS # 22-033-00144) will continue operation until the demolition and remediation activities at the nearby Exide recycle site are completed.
- Continue to operate the Vinton (AQS #22-019-0009) PM2.5 FRM due to the proximity of industry in the area to provide oversight of ambient air conditions in this industrial area.
- Continue to operate PM2.5 FRM at Alexandria (AQS #22-079-0002) for regional background.
- Continue to operate the ozone monitor at the Monroe site (AQS #22-073-0004) to maintain ozone monitoring coverage for the Northeast regional area.

In the event of projected budget cuts for fiscal year 2015/2016, LDEQ and EPA will work closely to minimize the impact of the cuts and to ensure continued public health.

Table A. Type and Number of Monitors Per Metropolitan Statistical Area (MSA)

		Т		Г	_								-					T	_		-		Г-		
															350,000-1,000,000									1,000,000-4,000,000	MSA/CSA Population ¹
PAMS	Trace Level Carbon Monoxide	Carbon Monoxide	Lead	PM Coarse	PM10	PM2.5 continuous	PM2.5 Speciation	PM2.5 FRM	Trace Level Sulfur Dioxide	Sulfur Dioxide	NOy	Trace Level reactive Nitrogen Oxides;	Nitrogen Oxides	Ozone	Baton Rouge	Lead	PM10	PM2.5 continuous	PM2.5 FRM	Carbon Monoxide	Sulfur Dioxide	Nitrogen Oxides	Ozone	New Orleans	Population ¹ MSA N
2-4	_	0	1	_	1-2	1	1	2	1	1	7	J	4	6		1	2-4	2	2	1	1	2	2		Number of Monitors Currently Required
4	1	0	2	_	_	2	-	4	-	_	7	J	6	9		1	2	4	4	_	2	2	5		Number of Existing Monitors
4	1	0	2	_	_	2	1	4	1	1	2	J	6	9		1	2	4	4	,_	2	2	5		Proposed Network

http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=bkmkhttp://www.census.gov/popest/data/metro/totals/2014/ Metropolitan Statistical Area, July 1, 2014, United States Census Bureau

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Table A. (cont.)

			50,000-350,000						50,000-350,000					350,000-1,000,000							350,000-1,000,000	MSA/CSA Population ¹
Ozone	PM2.5 continuous	PM2.5 FRM	Alexandria	PM2.5 continuous	PM2.5 FRM	Sulfur Dioxide	Nitrogen Oxides	Ozone	Lake Charles	PM10	PM2.5 continuous	PM2.5 FRM	Ozone	Lafayette	PM10	PM2.5 Speciation	PM2.5 continuous	PM2.5 FRM	Sulfur Dioxide	Ozone	Shreveport	MSA
0	0	0^2		0	02		1	1		1-2			2		0-1	-	_	1	1	2		Number of Monitors Currently Required
0	0	1		-		-		2		-	_		_					1	1	2		Number of Existing Monitors
0	0	1		1	1	1	1	2		1	1	1	2		1	1	1	1	1	2		Proposed Network

http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=bkmk http://www.census.gov/popest/data/metro/totals/2014/ 'Metropolitan Statistical Area, July 1, 2014, United States Census Bureau

^{&#}x27;No monitor required based on most recent 3-year design value <85% of NAAQS

Table A. (cont.)

50,000-350,000					50,000-350,000					50,000-350,000	MSA/CSA Population ¹
Hammond -FRM	Other Areas	PM2.5 continuous	PM2.5 FRM	Ozone	Houma / Thibodaux	PM2.5 continuous	PM2.5 FRM	Sulfur Dioxide	Ozone	Monroe	MSA
-		0	0^2	_		0	0^2	0	0		Number of Monitors Currently Required
_			_	_		0	_	0	_		Number of Existing Monitors
1		_		,		0	_	0	_		Proposed Network

http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=bkmk http://www.census.gov/popest/data/metro/totals/2014/ ¹Metropolitan Statistical Area, July 1, 2014, United States Census Bureau

^{*}No monitor required based on most recent 3-year design value <85% of NAAQS

*Special purpose monitors must run for 24 months before they are applicable to the NAAOS.

Site Name Address/ Longitude AQS/1D# Longitude Adexandria Roll Regularial FRM Schedule Schedule Sciale Comparable Represented Regularial FRM Alexandria Regularial Regularial FRM Alexandria Regularial Regularia		Yes		High Pop. Density	Continuous	U.V. Absorption	SLAMS NCORE	Ozone			
Address/Location Latitude/Location Longitude/Coordinates Pollutant Measured Station Sampling Method Operating Schedule Monitoring Objective Spatial Comparable NAOS 8105 Tom Lat = 31.18 PM2.5 SLAMS Sequential FRM Method 24 hrs every 3 rd day General General General General Method Yes 1400 West Lat = 30.45 Long = J.25 Lead SLAMS Gravimetric Gravimetric General Method Source General Gravimetric General Method Neighbor- Yes Lat = 30.46 Long = J.25 Lat = 30.45 Long = PM2.5 SLAMS Gravimetric FRM Method 24 hrs every 6th day Source Hood Neighbor- Yes Lat = 30.45 Long = Ave. PM2.5 SLAMS Res Partisol Plus Methode 2021 24 hrs every High Pop. Mood Neighbor- Yes Lat = 30.46 Long = Ave. PM2.5 SLAMS Res Partisol Plus Methode 2021 24 hrs every High Pop. Mood Neighbor- Yes Model 2025 Methode 2025 Methode 2025 Methode 2021 Methode 2021 Methode 2021 High Pop. Mood Yes PM2.5 SLAMS BAM 1020 Methode 2025 Met		Yes		High Pop. Density	Continuous	U.V. Fluorescence	SLAMS NCORE	SO ₂ Trace-level			
Address/ Location Latitude/ Longitude Coordinates Pollutant Measured Station Type Sampling Method Operating Schedule Monitoring Objective Spatial Scale NAAOS Comparable 8105 Tom Bowman Dr Lat = 31.18 Long = -92.41 PM2.5 SLAMS Sequential FRM R&P Partisol Plus Meth Code: 118 24 hrs every 3rd Meth Code: 128 General General Aday Regional Background Yes 11400 West Irene Rd Lat = 30.46 -91.25 Lead SLAMS Scapuential RAMS Every 6th day Source Background Neighbor- Nood Yes 1161-A Lessville Ave. Lat = 30.46 -91.18 PM2.5 SLAMS RAP Partisol Plus McMc Code: 118 24 hrs every McMc Code: 118 High Pop. Density Neighbor- Nood Yes PM2.5 SLAMS RAP Partisol Plus McMc Code: 118 24 hrs every McMc Code: 118 High Pop. Density Yes PM2.5 SLAMS RAP Partisol Plus McMc Code: 118 Continuous Density High Pop. Density Yes		No		High Pop. Density	24 hrs every 3 rd day	Chemical Speciation SASS Teflon SASS Teflon Gravimetric, Meth. Code 810 URG 3000N Meth. Code 839	STN	PM2.5			
Address/Location Latitude/Coordinates Pollutant Longitude Location Station Coordinates Station Measured Station Type Sampling Method Operating Schedule Monitoring Objective Spatial Scale Comparable NAOS 8105 Tom Long = Bowman Dr Lat = 31.18 Long = -92.41 PM2.5 SLAMS Sequential FRM Model 2025 Aux = 30.59 Lead Lat = 30.59 Lead SLAMS Gravimetric Gervinetric Gervinetric Every 6th day Source Model 2025 Model 202		Yes		High Pop. Density	Continuous	Continuous BAM 1020 Meth. Code: 122	SLAMS	PM10			
Address/ Location Latitude/ Coordinates Pollutant Measured Station Type Sampling Method Operating Schedule Monitoring Objective Spatial Objective NAAOS Scale 8105 Tom Bowman Dr Lat = 31.18 -92.41 PM2.5 SLAMS Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118 24 hrs every 3 rd day General General Background Regional Packground Yes 1400 West Irene Rd Lat = 30.59 -91.25 Lead SLAMS Gravimetric FRM NCORE Every 6 th day Source Oriented Neighbor- hood Yes 1061-A Lessville Long = -91.18 PM2.5 SLAMS NCORE Sequential Meth. Code: 118 24 hrs every Meth. Code: 118 High Pop. High Pop. Meth. Code: 118 Neighbor- hood Yes Yes PM2.5 SLAMS Nodel 2025 Meth. Code: 118 24 hrs every Meth. Code: 118 High Pop. High Pop. Meth. Code: 118 Yes		Yes		High Pop. Density	Continuous	Continuous BAM 1020 Meth. Code: 170	SLAMS NCORE	PM2.5			
Address/ Location Latitude/ Longitude Coordinates Pollutant Measured Station Type Sampling Method Operating Schedule Monitoring Objective Spatial Scale NAAQS Comparable 8105 Tom Bowman Dr Lat = 31.18 -92.41 PM2.5 SLAMS Sequential FRM R&P Partisol Plus Meth. Code: 118 24 hrs every 3 rd Meth. Code: 118 General Background Regional Background Yes 1400 West Irene Rd Lat = 30.46 -91.25 Lead SLAMS Gravimetric FRM Every 6 th day Source Oriented Neighbor- hood Yes 1061-A Ave. Lat = 30.46 -91.18 SLAMS NCORE Sequential R&P Partisol Plus Model 2025 Meth. Code: 118 24 hrs every Model 2025 Meth. Code: 118 Neighbor- High Pop. hood Neighbor- hood		Yes		High Pop. Density	24 hrs every 12 th day	Sequential FRM (Collocated) R&P Partisol Plus Model 2025 Meth. Code: 118	SLAMS	PM2.5			
Address/ Location Latitude/ Longitude Coordinates Pollutant Measured Station Type Sampling Method Operating Schedule Monitoring Objective Spatial Scale NAAQS Comparable 8105 Tom Bowman Dr 1400 West Irene Rd Lat = 31.18 -92.41 PM2.5 SLAMS Long = Lead SLAMS SLAMS SLAMS Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118 24 hrs every 3 rd day General Background Regional Background Yes Neighbor- hood 1400 West Irene Rd Lat = 30.59 -91.25 Lead SLAMS Gravimetric Every 6 th day Source Oriented Neighbor- hood Yes	Baton Rouge	Yes	Neighbor- hood	High Pop. Density	24 hrs every day	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	SLAMS NCORE	PM2.5	Lat = 30.46 Long = -91.18	1061-A Leesville Ave.	Capitol 22-033-0009
Address/ Location Location Location Location Location Location Coordinates 8105 Tom Long = Bowman Dr Long = -92.41 Location Loc	Baton Rouge	Yes	Neighbor- hood	Source Oriented	Every 6 th day	Gravimetric	SLAMS	Lead	Lat = 30.59 Long = -91.25	1400 West Irene Rd	Baker LSP 22-033-0014
Address/ Longitude Location Coordinates Latitude/ Pollutant Station Sampling Operating Operating Spatial NAAQS Method Schedule Objective Scale Comparable	Alexandria	Yes	Regional	General Background	24 hrs every 3 rd day	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	SLAMS	PM2.5	Lat = 31.18 Long = -92.41	8105 Tom Bowman Dr	Alexandria 22-079-0002
	MSA Represented	NAAQS Comparable	Spatial Scale	Monitoring Objective	Operating Schedule	Sampling Method	Station Type	Pollutant Measured	Latitude/ Longitude Coordinates	Address/ Location	Site Name AQS ID #

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										-
	LSU 22-033-0003							Capitol (cont.)	AQS ID #	Cita Mana
	East End Aster Lane							1061-A Leesville Ave.	Location	A J.J
	Lat = 30.42 Long =							Lat = 30.46 Long = -91.18	Longitude Coordinates	Latitude/
VOC	Ozone	PM Coarse	Lead	VOC		NOy Trace- level	NOx	CO Trace- level	Measured	Dallutant
SPMS	SLAMS	SLAMS NCORE	SLAMS NCORE	PAMS SLAMS		PAMS NCORE	SLAMS NCORE	PAMS NCORE	Type	Ctation
Trigger Canisters	U.V. Absorption	Continuous BAM 1020 Meth. Code: 185	Gravimetric	Canisters; Trigger Canisters		Chemilumin- escence	Chemilumin- escence	Nondispersive Infrared	Method	Complian
25 min when triggered	Continuous	Continuous	Every 6 th day	ozone season and every 6 th day otherwise, also 24 hrs every 6 th day; 25 min when triggered	8 3-hr samples daily during	Continuous	Continuous	Continuous	Schedule Schedule	Onarating
High Concentration	High Concentration	High Pop. Density	High Pop. Density	High Pop. Density		High Pop. Density	High Pop. Density RA40	High Pop. Density	Objective	Manitaring
	Middle							Neighbor- hood	Scale	Contint
No	Yes	No	Yes	No		No	Yes	No	Comparable	SOVVIN
	Baton Rouge							Baton Rouge	Represented	NAC V

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	Carville 22-047-0012	Carlyss 22-019-0002			22-047-0009	Bayou Plaquemine	Site Name AQS ID #
	Hwy 141	Hwy 28 & Hwy 108			Rd.	65180 Belleview	Address/ Location
-91.13	Lat = 30.22 Long =	Lat = 30.14 Long = -93.37			-91.32	Lat = 30.22 Long =	Site Name Address/ Latitude/ Pollutar AQS ID # Location Coordinates Measure
VOC	Ozone	Ozone	VOC	NOy Trace- level	NOx	Ozone	Pollutant Measured
SPMS	SLAMS	SLAMS	PAMS SLAMS	PAMS SLAMS	PAMS SLAMS	PAMS SLAMS	Station Type
Trigger Canisters	U.V. Absorption	U.V. Absorption	Canisters; Trigger Canisters	Chemilumin- escence	Chemilumin- escence	U.V. Absorption	Sampling Method
25 min when triggered	Continuous	Continuous	4 3-hr samples daily during ozone season and 8 3-hr samples every 6 th day otherwise; also 24 hrs every 6 th day; 25 min when triggered	Continuous	Continuous	Continuous	Operating Schedule
Source Oriented	General Background	General Background	Population Oriented	High Pop. Density	High Pop. Density	High Concentration	Monitoring Objective
Neighbor- hood	Regional	Neighbor- hood				Neighbor- hood	Spatial Scale
No	Yes	Yes	No	No	Yes	Yes	NAAQS Comparable
	Baton Rouge	Lake Charles				Baton Rouge	MSA Represented

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	No		Population Oriented	25 min when triggered	Canisters; Trigger Canisters	SPMS	VOC			
	No*		General Background	Continuous	Continuous TEOM Series1400a Meth. Code: 715	SPMS	PM2.5			
	Yes		High Concentration General Background	Continuous	U.V. Absorption	SPMS	Ozone			
Baton Rouge	Yes	Neighbor- hood	High Concentration General Background	Continuous	Chemilumin- escence	SLAMS	NOx	Lat = 30.32 Long = -90.81	16627 Perrilloux Ln @ Hwy 16	French Settlement 22-063-0002
	No		Population Oriented	4 3-hr cans every 3 rd day ozone season and 8 3-hr cans every 6 th day otherwise 25 min when triggered	Canisters; Trigger Canisters	PAMS SLAMS	VOC			
	Yes		General Background	Continuous	Chemilumin- escence	PAMS SLAMS	NOx	-90.97		
Baton Rouge	Yes	Neighbor- hood	General Background	Continuous	U.V. Absorption	PAMS SLAMS	Ozone	Lat = 30.2383 Long =	11153 Kling Rd.	Dutchtown 22-005-0004
Shreveport	Yes	Urban	High	Continuous	U.V. Absorption	SLAMS	Ozone	Lat = 32.68 Long = -93.86	Haygood Rd.	Dixie 22-017-0001
New Orleans	Yes	Neighbor- hood	General Background	Continuous	U.V. Absorption	SLAMS	Ozone	Lat = 29.99 Long = -90.82	St. James Courthouse Hwy 44 @ Canatella	Convent 22-093-0002
MSA Represented	NAAQS Comparable	Spatial Scale	Monitoring Objective	Operating Schedule	Sampling Method	Station Type	Pollutant Measured	Latitude/ Longitude Coordinates	Address/ Location	Site Name AQS ID #
							п (сопт.)	Table D. One operate Monton intomation (cont.)	obecitie inter	ו מטול בי. טוני

^{*} PM2.5 Continuous monitor used for AQI reporting purposes only.

				Kenner 22-051- 1001	Houma 22-109- 0001	Hour 22-10 000	Hammond 22-105- 0001 Houma 22-109- 0001	Geismar 22-047- 0005 Hammon 22-105- 0001 Houma 22-109- 0001	Garyville 22-095-0002 Geismar 22-047-0005 Hammond 22-105-0001 Houma 22-109-0001
				100 West Temple Pl.	4047 West Park Ave. at Hwy 24	47 West Park e. at Hwy 24	21549 Old Covington Hwy 4047 West Park Ave. at Hwy 24	Hwy 75 21549 Old vington Hwy 47 West Park e. at Hwy 24	E. Azalea St. Hwy 75 21549 Old ovington Hwy 047 West Park we. at Hwy 24
				Lat = 30.04 Long = -90.27	Lat = 29.68 Long = -90.78	Lat = 29.68 Long = -90.78	Lat = 30.50 Long = -90.38 Lat = 29.68 Long = -90.78	Lat = 30.24 Long = -91.06 Lat = 30.50 Long = -90.38 Lat = 29.68 Long = -90.78	Lat = 30.06 Long = -90.62 Lat = 30.24 Long = -91.06 Lat = 30.50 Long = -90.38 Lat = 29.68 Long = -90.78
	PM2.5	PM2.5	Ozone	xON	PM2.5	PM2.5	PM2.5 PM2.5	PM2.5 PM2.5 PM2.5	Ozone PM2.5 PM2.5 PM2.5
	SPMS	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS SLAMS SLAMS	SLAMS SLAMS SLAMS	SLAMS SLAMS SLAMS SLAMS
Meth. Code: /13	Continuous TEOM Series 1400a	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	U.V. Absorption	Chemilumin- escence	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	Sequential FRM (Collocated) R&P Partisol Plus Model 2025 Meth. Code: 118 Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118 Sequential FRM (Collocated) R&P Partisol Plus Model 2025 Meth. Code: 118 Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118 Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118 Sequential FRM (Collocated) R&P Partisol Plus Model 2025 Meth. Code: 118 Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118 Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118 Sequential FRM (Collocated) R&P Partisol Plus Model 2025 Meth. Code: 118 Sequential FRM (FRM R&P Partisol Plus Model 2025 Meth. Code: 118
	Continuous	Every 6 th day	Continuous	Continuous	24 hrs every 3 rd day	24 hrs every 12 th day 24 hrs every 3 rd day	24 hrs every 3 rd day 24 hrs every 12 th day 24 hrs every 3 rd day	24 hrs every 3 rd day 24 hrs every 3 rd day 24 hrs every 12 th day 24 hrs every 12 th day	Continuous 24 hrs every 3 rd day 24 hrs every 3 rd day 24 hrs every 12 th day 24 hrs every 3 rd day
	High Pop. Density	High Pop. Density	High Concentration	High Pop. Density Area-wide	High Pop. Density	High Pop. Density High Pop. Density	High Pop. Density High Pop. Density High Pop. Density	High Pop. Density High Pop. Density High Pop. Density Density Density	General Background High Pop. Density High Pop. Density High Pop. Density High Pop. Density
				Urban	Neighbor- hood	Neighbor- hood	Neighbor- hood Neighbor- hood	Neighbor- hood Neighbor- hood Neighbor- hood	Regional Neighborhood Neighborhood Neighborhood
	No*	Yes	Yes	Yes	Yes	Yes Yes	Yes Yes	Yes Yes Yes	Yes Yes Yes Yes
			1	New Orleans	Houma/ Thibodaux	Houma/ Thibodaux	Hammond Houma/ Thibodaux	Hammond Houma/ Thibodaux	New Orleans Baton Rouge Hammond Houma/ Thibodaux

^{*} PM2.5 Continuous monitor used for AQI reporting purposes only.

	Madisonville 22-103-0002		LaPlace 22-095-0003	New Ozone Site Lafayette MSA				Lafayette USGS 22-055-0007	Site Name AQS ID #
	1421 Hwy 22 West		115 Garden Grove					700 Cajundome	Address/ Location
	Lat = 30.43 Long = -90.20	-90.40078	Lat = 30.04 Long =					Lat = 30.2383 Long = -92.04	Latitude/ Longitude Coordinates
PM2.5	Ozone	Lead	Lead	Ozone	Ozone	PM10	PM2.5	PM2.5	Pollutant Measured
SPMS	SLAMS	SLAMS	SLAMS		SLAMS	SLAMS	SPMS	SLAMS	Station Type
Continuous TEOM Series1400a Meth. Code: 715	U.V. Absorption	Gravimetric (Collocated)	Gravimetric		U.V. Absorption	Continuous BAM 1020 Meth. Code: 122	Continuous BAM 1020 Meth. Code: 170	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	Sampling Method
Continuous	Continuous	Every 12 th day	Every 6 th day		Continuous	Continuous	Continuous	24 hrs every 3 rd day	Operating Schedule
Source Oriented	Source Oriented	Oriented	Source		High Pop. Density	High Pop. Density	High Pop. Density	High Pop. Density	Monitoring Objective
	Neighbor- hood		Middle					Neighbor- hood	Spatial Scale
No*	Yes	Yes	Yes		Yes	Yes	No*	Yes	NAAQS Comparable
	New Orleans		New Orleans	Lafayette				Lafayette	MSA Represented
	SPMS TEOM Continuous Source Series1400a Continuous Oriented	1421 Hwy Lat = 30.43 22 West Long = -90.20 Ozone SLAMS Absorption Continuous Oriented hood No* PM2.5 SPMS Series1400a Meth. Code: 715 Ozone SLAMS Ozone SLAMS Absorption Continuous Oriented No*	1421 Hwy Lat = 30.43 22 West Long = -90.20 PM2.5 SPMS Series 1400a Lead SLAMS Gravimetric Every 12th Oriented day U.V. Continuous Oriented hood No* Scries 1400a Meth. Code: 715 Every 12th Oriented Hood May Continuous Oriented Source Neighbor- Yes Absorption Source Oriented No*	H15 Garden Lat = 30.04 Lead SLAMS Gravimetric Every 6 th day Source -90.46678 Lead SLAMS Gravimetric Every 12 th Oriented Yes 1421 Hwy Lat = 30.43 Long = -90.20 PM2.5 SPMS Series1400a Meth. Code: 715 PM2.5 SPMS SLAMS Gravimetric Every 12 th Oriented Surce Surce PM2.5 SPMS Series1400a Meth. Code: 715 Source Source Neighbor- Yes Source Source PM2.5 SPMS Series1400a Meth. Code: 715	115 Garden Lat = 30.04 Lead SLAMS Gravimetric Every 6 th day Source Yes	Ozone Ozon	PM10 SLAMS Continuous High Pop. Po	PM2.5 SPMS BAM 1020 Continuous Density PM10 SLAMS Absorption PM10 SLAMS Absorption PM10 SLAMS Continuous Continuous Density PM10 SLAMS Absorption PM10 SLAMS Gravimetric Every 6th day Source P00.46678 Lat = 30.04 Lead SLAMS Gravimetric Every 12th Oriented Absorption PM21 Hwy Lat = 30.43 Ozone SLAMS Absorption PM2.5 SPMS Series 1400a Series 1400a Series 1400a Meth. Code: 715 PM2.5 SPMS Series 1400a Continuous Oriented No*	Cajundome Lat = 30.238.3 PM2.5 SLAMS Race Partisel Plus Cajundome Long = -92.04 PM2.5 SLAMS Race Partisel Plus Absorption Continuous Continuous High Pop. Phood PM2.5 PM2.5 SPMS BAM 1020 Continuous High Pop. Phood PM2.5 PM2.5 SPMS BAM 1020 Continuous High Pop. Phood PM2.5 PM2.5 PM2.5 SPMS BAM 1020 Continuous High Pop. PM2.5 PM2.5

^{*} PM2.5 Continuous monitor used for AQI reporting purposes only.

New Roads 22-077-0001		22-071-0021	New Orleans Near-Road		New Orleans City Park 22-071-0012		Monroe 22-073-0004			Meraux 22-087-0004	Site Name AQS ID #
Hwy 415			I610 at West End Blvd.		Florida & Orleans Ave.		Southwest Rd.			4101 Mistrot Drive	Address/ Location
Lat = 30.68 Long = -91.37	Long = -90.12	Lat = 29.99			Lat = 29.99 Long = -90.10		Lat = 32.51 Long = -92.05			Lat = 29.94 Long = -89.92	Latitude/ Longitude Coordinates
Ozone	PM2.5	00	NOx	PM10	PM2.5	Ozone	PM2.5	H2S	SO2	Ozone	Pollutant Measured
SLAMS	SLAMS	SLAMS	SLAMS	SLAMS	SPMS	SLAMS	SLAMS	SPMS	SPMS	SPMS	Station Type
U.V. Absorption	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	Gas Filter Correlation	Chemilumin- escence	Continuous BAM 1020 Meth. Code: 122	Continuous TEOM Series1400a Meth. Code: 715	U.V. Absorption	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	U.V. Fluorescence	U.V. Fluorescence	U.V. Absorption	Sampling Method
Continuous	24 hrs every 3 rd day	Continuous	Continuous	Continuous	Continuous	Continuous	24 hrs every 3 rd day	Continuous	Continuous	Continuous	Operating Schedule
General Background	High Concentration	High Concentration	High Concentration	High Pop. Denisty	High Pop. Density	General Background	General Background	General Background	General Background	General Background	Monitoring Objective
Neighbor- hood			Micro- scale		Neighbor- hood		hood			Urban	Spatial Scale
Yes			Yes	Yes	No*	Yes	Yes	No	Yes	Yes	NAAQS Comparable
Baton Rouge			New Orleans		New Orleans		Monroe			New Orleans	MSA Represented

^{*}PM2.5 Continuous monitor used for AQI reporting purposes only.

Table B. Site Specific Monitor Information (cont.)

	Pride 22-033-0013					Port Allen 22-121-0001	Site Name AQS ID #
	11245 Port Hudson Rd.					3758 Hwy 1	Address/ Location
	Lat = 30.70 Long = -91.05					Lat = 30.50 Long = -91.21	Site Name Address/ Latitude/ Pollutar AQS ID# Location Coordinates Measure
Ozone	NOx	VOC	NOx	Ozone	PM2.5	SO2	Pollutant Measured
PAMS SLAMS	PAMS SLAMS	SPMS	SLAMS	SLAMS	SLAMS	SLAMS	Station Type
U.V. Absorption	Chemilumin- escence	Trigger Canisters	Chemilumin- escence	U.V. Absorption	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	U.V. Fluorescence	Sampling Method
Continuous	Continuous	25 min when triggered	Continuous	Continuous	24 hrs every day	Continuous	Operating Schedule
High Concentration	High Concentration	Population Oriented	High Concentration	High Concentration	High Concentration	High Concentration	Monitoring Objective
	Neighbor- hood					Neighbor- hood	Spatial Scale
Yes	Yes	No	Yes	Yes	Yes	Yes	NAAQS Comparable
	Baton Rouge					Baton Rouge	MSA Represented
	PAMS U.V. Continuous High SLAMS Absorption Concentration	Hudson Rd. Long = -91.05 NOx SLAMS Chemilumin- Hudson Rd. Long = -91.05 NOx SLAMS escence Continuous Concentration High Concentration High Concentration High Concentration Yes Ozone SLAMS Absorption Concentration Concentration	Trigger 25 min when Population No Canisters triggered Oriented Pams Hudson Rd. Long = -91.05 PAMS Chemilumin- Continuous Concentration hood PAMS U.V. Ozone SLAMS Absorption Continuous Concentration Yes	NOx SLAMS Chemilumin- escence 25 min when Population No 11245 Port Lat = 30.70 Hudson Rd. Long = -91.05 NOx SLAMS Ozone Ozone SLAMS Ozone SLAMS Ozone NOx SLAMS Chemilumin- escence Continuous Concentration Continuous Concentration High Neighbor- escence High Neighbor- Yes Ozone SLAMS Absorption Continuous Concentration Hood Yes	Ozone SLAMS U.V. Absorption Continuous High Concentration Yes NOx SLAMS Chemilumin- escence Continuous Concentration Yes 11245 Port Hudson Rd. Lat = 30.70 Long = -91.05 NOx PAMS SLAMS Chemilumin- escence Continuous Concentration No 1020 PAMS Hudson Rd. Dzone PAMS SLAMS Chemilumin- escence Continuous Concentration Neighbor- hood Yes Dzone SLAMS Absorption Continuous Concentration Absorption	Sequential FRM PM2.5 SLAMS R&P Partisol Plus Model 221 hrs every High day Concentration Ozone SLAMS ODEN DIAMS ODEN DIAMS Continuous Concentration NOX SLAMS Chemilumin- Continuous Concentration 11245 Port Lat = 30.70 NOx SLAMS Chemilumin- Continuous Concentration NOX SLAMS Chemilumin- Continuous Concentration Population Oriented High Neighbor- Yes Concentration NOX SLAMS Chemilumin- Continuous Concentration High Neighbor- Yes Concentration High Neighbor- Yes SLAMS Chemilumin- Continuous Concentration High Neighbor- Yes SLAMS Chemilumin- Continuous Concentration High Neighbor- Yes SLAMS Chemilumin- Continuous Concentration High Neighbor- Yes Neighb	3758 Hwy 1 Lat = 30.50 Long = -91.21 SO2 SLAMS Fluorescence Continuous Concentration Concentration High hood Yes

				0.197				08	
	Thibodaux 22-057-0004		Shreveport Calumet 22-017-0008					Shreveport Airport 22-015-0008	Site Name AQS ID #
bred Park	194 Thorough-		Midway St.					1425 Airport Dr.	Address/ Location
	Lat = 29.76 Long = -90.77		Lat = 32.47 Long = -93.79					Lat = 32.53 Long = -93.75	Site Name Address/ Latitude/ Pollutar AQS ID # Location Coordinates Pollutar
PM2.5	Ozone	PM2.5	PM2.5	SO2	PM10	PM2.5	PM2.5	Ozone	Pollutant Measured
SPMS	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS	SPMS	SPMS	SLAMS	Station Type
Continuous TEOM Series1400a Meth. Code: 715	U.V. Absorption	Sequential FRM (Collocated) R&P Partisol Plus Model 2025 Meth. Code: 118	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	U.V. Fluorescence	Continuous BAM 1020 Meth. Code: 122	Chemical Speciation SASS Teflon Gravimetric, Meth. Code 810	Continuous TEOM Series1400a Meth. Code: 715	U.V. Absorption	Sampling Method
Continuous	Continuous	24 hrs every 12 th day	24 hrs every 3 rd day	Continuous	Continuous	24 hrs every 6 th day	Continuous	Continuous	Operating Schedule
General Background	General Background	High Pop. Density	High Pop. Density	High Pop. Density	High Pop. Density	General Background	General Background	High Pop. Density	Monitoring Objective
	Neighbor- hood		Neighbor- hood					Neighbor- hood	Spatial Scale
No*	Yes	Yes	Yes	Yes	Yes	No	No*	Yes	NAAQS Comparable
	Houma/ Thibodaux		Shreveport					Shreveport	MSA Represented

^{*} PM2.5 Continuous monitor used for AQI reporting purposes only.

			Westlake 22-019-0008		Vinton 22-019-0009	Site Name AQS ID #
			2646 John Stine Rd.		2284 Paul Bellow Rd.	Address/ Location
			Lat = 30.26 Long = -93.28		Lat = 30.2383 Long = -93.58	Site Name Address/ Latitude/ AQS ID # Location Longitude Coordinates Pollutar
VOC	NOx	PM2.5	S02	Ozone	PM2.5	Pollutant Measured
SPMS	SLAMS RA40	SPMS	SLAMS	SPMS	SLAMS	Station Type
Canisters; Trigger Canisters	Chemilumin- escence	Continuous TEOM Series1400a Meth. Code: 715	U.V. Fluorescence	U.V. Absorption	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	Sampling Method
24 hrs every 6 th day; 25 min when triggered	Continuous	Continuous	Continuous	Continuous	24 hrs every 3 rd day	Operating Schedule
Population Oriented	High Pop. Density RA40	High Pop. Density	High Pop. Density	General Background	Regional Transport	Monitoring Objective
			Neighbor- hood		Neighbor- hood	Spatial Scale
N _o	Yes	No*	Yes	Yes	Yes	NAAQS Comparable
			Lake Charles		Lake Charles	MSA Represented

^{*} PM2.5 Continuous monitor used for AQI reporting purposes only.

Table B. Site Specific Monitor Information (cont.)

i acto Di	o postario	THURSE DE STORE STORES STORES STORES STORES STORES			Special Purpose Monitors	nitors				
Site Name AOS ID #	Address/ Location	Latitude/ Longitude	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
Chalmette Vista 22-087-0007	24 E. Chalmette Circle	Lat = 29.94 Long = -89.98	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	24 hrs every 6 th day	Source Oriented	Neighbor -hood	Yes	New Orleans
			PM2.5	SPMS	Continuous BAM 1020 Meth. Code: 170	Continuous	Source Oriented		No*	
			PM10	SLAMS	Continuous BAM 1020 Meth. Code: 122	Continuous	Source Oriented		Yes	
			SO ₂	SLAMS	U. V. Fluorescence	Continuous	Source Oriented		Yes	
			H2S	SPMS	U.V. Fluorescence	Continuous	Source Oriented		No	
			VOC	SPMS	Trigger Canisters	25 min when triggered	Source Oriented		No	
Lake Charles Lighthouse Lane SPECIAL3	Lighthouse Lane & Bayou D'Inde Pass	Lat = 30.22 Long = -93.31	VOC	SPMS	Trigger Canisters	25 min when triggered	Population Oriented	Neighbor -hood	No	Lake Charles
Southern University 22-033-2002	Isabel Herson St.	Lat = 30.53 Long = -91.19	VOC	SPMS	Trigger Canisters	25 min when triggered	Source Oriented	Neighbor -hood	No	Baton Rouge
* DMO & Continuous monitor used for AOI reporting numases only	tinuous monit	ar used for AOI r	marting plim	oces only						

^{*} PM2.5 Continuous monitor used for AQI reporting purposes only.

Table C. PAMS Network Plan

January-December January-December				
January-Decembe	Hourly	Solar Radiation		
January-December	Hourly	Barometric Pres.		
January December	Hourly	Relative Humidity		
January-December	Hourly	Temperature		
January-December	Hourly	Wind Direction*		
January-December	Hourly	Wind Speed*		
January-December	Hourly	Ozone		
January-December	Hourly	NO _y		
January-December	Hourly	TNMOC		
May-September	Four 3-hr canisters daily (i.e. 0300-0600, 0600-0900, 1500-1800, 1800-2100 LST); One 24-hour canister every 6 th day	Speciated VOC	3/1	Bayou Plaquemine 22-047-0009
Sampling Period	Sampling Frequency	Pollutant	Site Type	Site Name
January-December	Every 6 Days	Lead		
January-December	Hourly	Mixing Height		
January-December	Hourly	PM10		
January-December	Hourly	Precipitation		
January-December	Hourly	Solar Radiation		
January-December	Hourly	Barometric Pres.		
January-December	Hourly	UV Radiation		
January-December	Hourly	Relative Humidity		
January-December	Hourly	Temperature		
January-December	Hourly	Wind Direction*		
January-December	Hourly	Wind Speed*		
January-December	Hourly	SO ₂ (low level)		
January-December	Hourly	Ozone		
January-December	Hourly	CO (ppb level)		
January-December	Hourly	NOy		
January-December	Hourly	NO, NO ₂ , NO _x		
January-December	Hourly	TNMOC		
May-September	Eight 3-hr canisters daily (0000, 0300, 0600, 0900, 1200, 1500, 1800, 2100 LST); One 24-hour canister every 6 th day	Speciated VOC	2	Capitol 22-033-0009
Sampling Period	Sampling Frequency	Pollutant	Site Type	Site Name

Table C. PAMS Network Plan (cont.)

TADIC C. I MINIS INCLINOIS I IMI (COIL.)	OIN I IMI (CA	7.ir.)	:	2
Site Name	Site Type Pollutant	Pollutant	Sampling Frequency	Sampling Period
Pride			Four 3-hr cans every 3 days (i.e. 0300-0600, 0600-0900,	
22-033-0013	1/3		1500-1800, 1800-2100 LST); One 24-hour canister every	May-September
		Speciated VOC	6 th day	
		TNMOC	Hourly	January-December
		NO, NO ₂ , NO _x	Hourly	January-December
		Ozone	Hourly	January-December
		Wind Speed*	Hourly	January-December
		Wind Direction*	Hourly	January-December
		Temperature	Hourly	January-December
		Relative Humidity	Hourly	January-December
		Barometric Pres.	Hourly	January-December
		Solar Radiation	Hourly	January-December
Dutchtown			Four 3-hr cans every 3 days (i.e. 0300-0600, 0600-0900,	:
22-005-0004	1/3	Speciated VOC	1500-1800, 1800-2100 LST); One 24-hour canister every 6 th day	May-September
		NO, NO ₂ , NO _x	Hourly	January-December
		Ozone	Hourly	January-December
		Wind Speed*	Hourly	January-December
		Wind Direction*	Hourly	January-December

^{*}Wind speed and direction reported to AQS as resultant wind speed and resultant wind direction

Site pictures can be found at http://www.deq.louisiana.gov/portal/tabid/2466/Default.aspx by clicking on the desired location on the site map.